Amendments to the Claims:

This listing of claims is intended to replace all prior versions, and listings, of claims in the application.

1. (currently amended) A composition comprising:

(i) 10 to 80 wt.-% organic binder;

(ii) 0.01 to 5 wt.-% polymerization initiator;

(iii) 20 to 90 wt.-% particulate composite filler, comprising a polymerized mixture of organic binder and inorganic filler, the composite filler particles having an average particle size of 20 to 50 μm ~~and containing at most 10 wt.-% particles with a size of < 10 μm~~, each wt-% of (i), (ii), and (iii) relative to the total mass of the composition; and

wherein the composition contains at most 10 wt.-% composite filler particles having a size of < 10 μm, relative to the total mass of the particulate composite filler in the composition.

2. (previously presented) Composition according to claim 1, wherein the composite filler has a maximum particle size of 70 μm.

3. (previously presented) Composition according to claim 1, wherein the composite filler is prepared by curing of a mixture of

(a) 10 to 80 wt.-% organic binder;

(b) 0.01 to 5 wt.-% polymerization initiator; and

(c) 20 to 90 wt.-% inorganic filler,

each relative to the total mass of the uncured mixture.

4. (previously presented) Composition according to claim 3, wherein the inorganic filler comprises quartz, glass ceramic, glass powder or a mixture thereof.

5. (previously presented) Composition according to claim 4, wherein said glass powder comprises barium glass powder or strontium glass powder.

6. (previously presented) Composition according to claim 4, wherein said quartz, glass ceramic and/or glass powder has an average particle size of 0.4 to 1.5 μm.

7. (currently amended) Composition according to claim 3, wherein said composite filler contains 10 to 50 wt.-% X-ray-opaque filler.

8. (previously presented) Composition according to claim 7, the composite filler further comprising ytterbium fluoride.

9. (previously presented) Composition according to claim 3, the composite filler further comprising precipitated mixed oxides.

10-11. (canceled)

12. (currently amended) Composition according to claim 1, further comprising an inorganic filler which is not a component of the composite filler.

13. (previously presented) Composition according to claim 12, wherein said inorganic filler comprises quartz, glass ceramic, glass powder, or a mixture thereof.

14. (previously presented) Composition according to claim 13, wherein said glass powder comprises barium glass powder and/or strontium glass powder.

15. (previously presented) Composition according to claim 13, wherein said quartz, glass ceramic and/or glass powder has an average particle size of 0.4 to 2 μm.

16. (previously presented) Composition according to claim 12, comprising 25 to 70 wt.-% quartz, glass ceramic and/or glass powder.

17. (currently amended) Composition according to claim 12, further comprising an X-ray-opaque filler which is not a component of the composite filler.

18. (previously presented) Composition according to claim 17, comprising ytterbium fluoride.

19. (previously presented) Composition according to claim 17, comprising 1 to 10 wt.-% X-ray-opaque filler.

20. (previously presented) Composition according to claim 12, further comprising a layered silicate.

21. (previously presented) Composition according to claim 20, comprising 0.05 to 5 wt.-% layered silicate.

22. (currently amended) Composition according to claim 1, further comprising precipitated mixed oxide which is not a component of the composite filler.

23. (previously presented) Composition according to claim 22, comprising SiO_2/ZrO_2 mixed oxide.

24. (previously presented) Composition according to claim 22, wherein said mixed oxide has a particle size of 200 to 300 nm.

25. (previously presented) Composition according to claim 22, comprising 20 to 70 wt.-% mixed oxide.

26. (currently amended) Composition according to claim 1, further comprising 0.01 to 2 wt.-% additives which are not a component of the composite filler.

27. (previously presented) The composition according to claim 1, comprising a tooth-filling material, material for inlays or onlays, tooth cement, facing material for crowns and bridges, or material for false teeth.

28. (previously presented) Composition according to claim 3, wherein the organic binder is 10 to 30 wt.-%, the polymerization initiator is 0.5 to 2 wt.-%, and the inorganic filler is 60 to 88 wt.-%.

29. (previously presented) Composition according to claim 6, wherein said average particle size is 0.7 to 1.0 μm.

30. (previously presented) Composition according to claim 7, wherein said composite contains 20 to 30 wt.-% X-ray-opaque filler.

31. (previously presented) Composition according to claim 16, comprising 30 to 50 wt.-% quartz, glass ceramic and/or glass powder.

32. (previously presented) Composition according to claim 3, wherein the organic binder comprises 10 to 30 wt.-%, relative to the total mass of the uncured mixture.

33. (previously presented) Composition according to claim 3, wherein the polymerization initiator comprises 0.5 to 2 wt.-%, relative to the total mass of the uncured mixture.

34. (previously presented) Composition according to claim 3, wherein the inorganic filler comprises 60 to 88 wt.-%, relative to the total mass of the uncured mixture.